
title: "R Notebook" output: html_notebook

This is an [R Markdown](http://rmarkdown.rstudio.com) Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the *Run* button within the chunk or by placing your cursor inside it and pressing *Cmd+Shift+Enter*.

```
```{r}
plot(cars)
```

Add a new chunk by clicking the \*Insert Chunk\* button on the toolbar or by pressing \*Cmd+Option+I\*.

When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the \*Preview\* button or press \*Cmd+Shift+K\* to preview the HTML file).

The preview shows you a rendered HTML copy of the contents of the editor. Consequently, unlike \*Knit\*, \*Preview\* does not run any R code chunks. Instead, the output of the chunk when it was last run in the editor is displayed.

```
title: "Vfoster4_Module4"
output: pdf_document
date: "2023-09-24"

"``{r setup, include=FALSE}
knitr::opts_chunk$set(echo = TRUE)
```

## ## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <a href="http://rmarkdown.rstudio.com">http://rmarkdown.rstudio.com</a>.

When you click the \*\*Knit\*\* button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
"`{r cars}
summary(cars)
```

## Including Plots

You can also embed plots, for example:

```
"``{r pressure, echo=FALSE}
```

```
plot(pressure)
```

printing out model

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

```
library(lpsolveapi)
We have 2 variables and 3 Constraints
x1= number of collegiate bags
x2= number of mini bags
y= maximum profit
lprec <make.lp(0,2)
x1 = 1
x^2 = 2
set objectective function
set.objfn(lprec, c(3,5))
lp.control(lprec,sense='max')
\begin{array}{lll} add.contraint(lprec,\,c(1,0),\,"<=",\,4)\\ add.constraint(lprec,\,c(0,2),\,"<=",12)\\ add.constraint(lprec,\,c(3,2),\,"<=,\,18) \end{array}
set.bounds(lprec, lower = c(0,0), columna = c(1,2)
row.names <- c("plant1", "plant2", "plant3")
colnames <- c("product1", "product2")
dimnames(lprec) <-list(row.names, colnames)
```